### FIGURE 1 (SHEET 1)

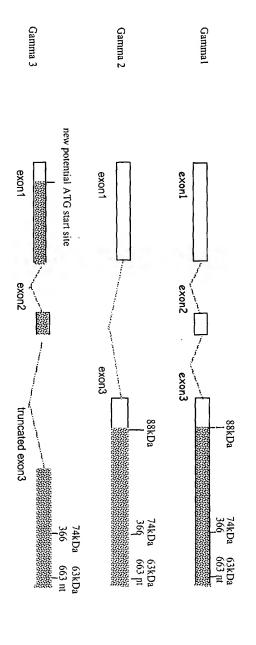
1080	.CAAGCCTACAAGTCCTTCTGCGATACCTGATGTTCTTCAAGTTT
	LRSPDPGILAYKPGSESVHT
1020	961 TTAAGATCTCCAGATCCTGGCATCCTGGCTTATAAGCCAGGCTCAGAATCTGTACATACG
	ENEHFRDKSELEDKKVEEGK
960	901 GAAAATGAACATTTCCGGGACAAATCAGAACTTGAAGATAAAAAGGTAGAAGAGGGGAAA
	F L S N H I N S Y F K R K E K M S Q Q K
900	841 TTTTTATCAAATCATATTAATTCATATTTCAAACGTAAGGAAAAAATGTCTCAACAAAAG
	K R S L F H Y T S S I T T K F G D S F Y
840	781 AAACGCAGTCTTTTCATTACACAAGTTCTATAACCACAAAATTTGGAGACTCATTCTAC
	EKSPFPEEKSHIIDKEEDIG
780	721 GAAAAGAGTCCTTTTCCAGAAGAGAAAAGTCACATTATAGACAAAGAAGAAGATATAGGT
	K Q K N I K Q A I K S L K K Y S D K S A
720	B
	×
660	601 TTAGCTCAATTTAAGCCAAGTTCCCAAATTTTAAGAAAAGTATCGGATAGTGGCTGGTTA
	STLNSVSKAVFGNQNE <b>M</b> ISR
600	541 AGTACTTTGAACTCTGTTTCAAAGGCTGTTTTTGGCAATCAAAATGAAATGATTTCACGT
	LSTSAPKGLTKVNICMSRIK
540	481 CTTAGCACTTCTGCTCCCAAGGGACTTACAAAAGTGAACATTTGTATGTCCCGTATTAAA
	S C S K H C Y S P S N H G L H I G I L K
480	421 TCTTGCAGTAAGCACTGTTACTCTCCAAGCAACCATGGTTTACATATTGGGATTTTGAAA
	LQRGFHTNIIRCKWTKSEAH
420	AGGTTTTC
	S K Q L Y F L F S P K H Y W R I S H I S
360	CAAGCAACTGTATTTCTTGTTCTCACCTAAGCATTACTGGAGGATAAGCCACA
	TVDIYILLSNARSVCGKQR
300	241 ACTGTAGATATATATTTTACCTCCTTAGTAATGCAAGAAGTGTTTGTGGGAAGCAGAGA
	M S I N L
240	181 TCAAGAAGTGAGAGAATGTCATAGAAAATAAATGATTTTTAAGTTATGTCTATTAATCTG
180	Н
120	61 GCCGCTGCAGCCCTAGTGACTGCGGCCTGCATCCCGATTGTCTTCTCCTCCAAGGTCTAC
0	1 TGGAAGCTCAGCTGATGCAGGCCGGTTGGAGTGGACGTCATTGCCGGGAACGAGCGAG

### FIGURE 1 (SHEET 2)

1501 1441 1381 1201 1081 AGTATTGCTAACTTTCTTCTCGTCCCACGGAAGGTGTACAAGCTTTAGTAGGTGGTTAT 1140 1261 TTTCCTGGAATCAACTCTCATTATTTGGGAGGCTGTCAGTATAAAATGTGGCAGGCCATT GGATCTGCACTGATGATTGAAACAGCAAGAAACCCCCACATGTCCTAAGGTAGCTGCTGTA AGTTGGAGCCATGCATTTTATGACAGTCAAACATGGGAAAACATTCTTAAGGATAGGATG GCCATATTAGCTTTCATGTTGGGGTTGTTTCATATGCCCTTGGATGAATGTGAGGAACTT S I D G G G T R G V V A L Q T L R K L V GAACTTACTCAGAAGCCAGTTCATCAGCTCTTTGATTACATTTGTGGTGTAAGCACAGGT 1680 TCAATTGATGGTGGAGGAACAAGGGGCGTGGTTGCTCCCAGACCCCTACGAAAATTAGTT 1620 GAAATTTTGGCCCTAATTGGCTATGTGGATCCAGTGAAAGGGAGAGGAATCCGAATTCTC CTGACTTTTCATCTTCTAGAATTTCCTGAAGGAAAAGGAGTGGCTGTCAAGGAAAGAATT 1440 TTAGTTCAGGCATTAAGAAGAACAACTGACCCAAAGCTCTGCATTACTAGGGTTGAAGAA 1380 GAGCCTGCTAAAACTGATCAGGCTGTCAGCAAAGACAGAAATGCAGAGGAGAAAAAAGCGT 1260 AGTACCATAGTAAATAGAGGGATAACACCCAAAGCTTTTGTGTTCAGAAACTATGGTCAT ATTCCATATTATTACGACTGAGACAAATTAAGGATGAAACTCTTCAGGCTGCAGTTAGA 1500 TATCGAAAATTAGGATCAGATGTATTTTCACAAAATGTCATTGTTGGAACAGTAAAAATG TTATCTCTTCAGCGAGAAAAGATTATCGCAAGGGTGAGTATTGATAACAGGACCCGGGCA Ы K I D Q LIG ٧ P S Ħ E E ĭ × KIIARVS z L ᆫ G Ч U < Þ ᄪ 日 × 二 겨 A Н U G) YVD Ħ ٧ 버 שי Ъ Н × щ ㄷ Ю Ю Ą Н ß S V K Y D S K S Ħ TEGVQ D. A T Ø ۲ Ч ഗ μĵ IKDE U Q Ħ Н Ø PVKG PKLC K D R N × M G K G V N P S I A N Þ ם א ו Ą Ю Ħ T C Д <del>--]</del> ΗD ⋖ z ᆫ < C Ľ A Þ Ø Þ Н < × Н U Z г Q Ю V K E Н വ L V G Ø Ø V S Þ 1560 1920 1980

### FIGURE 1 (SHEET 3)

2761 2701 2641 3121 2941 2821 3301 3241 3061 3001 2881 2521 ATAAAATTAAAAACTGATATGTATGAAGGACTTCCATTCTTTTCAAAATTGTGATGAGTA 2461 AAAAAAGTTGCAAAAATATTAAGTCAAGAAAAAACAACTCTGCAGAAAATTAATGATTGG 2401 AAGCTGGATCAGCTGCAGTTGGAAGGGTTGAAATACATAGAAAAGAAATGAACAAAAAATG 2281 AGTGCTACAGATACAGAAGAAGTCCATATAATGCTTGATGGCCTGTTACCTCCTGACACC 2340 2221 GATGTGAGAAACACGGTAACATACACAAGCTTGAAAACTAAACTTTCTAATGTTATCAAC 2101 CAAGATGGAGGTTTGCTTCTGAATAACCCTTCGGCATTAGCTATGCATGAGTGTAAATGT 2160 2041 AGAGCCTCATCTGCTGCTCCAGGCTACTTTGCAGAATATGCATTGGGAAATGATCTTCAT 2100 3180 CTTTGGCCAGATGTGCCGTTAGAGTGCATAGTATCCCTGGGCACTGGACGTTATGAGAGT 2220 TATTTTAGATTCAATCCTGTAATGTGTGAAAACATACCTCTAGATGAAAGTCGAAATGAA AGGCTAATGTCATTTTAAAATTAATTTTTGTTCATAATGTAGCTCCCCTTTAGCCTTGA TACTGAGGAGATATTCCTATCATTAACAAAAATAAACTATTTAAATAATCTGTTGTTAAA CATGTTGAATTTATGTGATCATTGATTTTATTTCATATGGAAAAGCTAATTTCTTCTTAA GTAGATTTTAGTAGATATTGGTGTTATATTGTTTGATGTTTGAAAATATATTAATATATG GGGAACTAGGCTTTTAAGATGTTAATAATTAGCTAAGCTTTAGTAACCCTTACTGCTG TATGCTTATGTTCTCATAAATGAAGGTCTGTTTAGAAGATCAACCACATTCAATAAGGAA ACATAAAAAAGAACCAGATACAGTTTTCTATTCAGATATGTTTATTTTAACATTGTTTTGG AATATCATCTAAATAGATGCAGAAAAATGGAATTTTCTCTATTAAAGTATTTTACATTTG ATTTACATTACCTAATATTCTCACTAGCTATGTTCTCCAATCCACACTGCCTTTTATTGT TGCCGAACAAGAAACCGAAAGCTATATTGTACTGTGTATTTTTACTTTAGTCCTCATAAT AGACGGTGCTTCAACCAGCTTGCATAGCACAGAGAATATTCTTGGTTACAGAATTCATAT TTGTGGGGTTCGACATGAGTTAACTTTGAAATACGTATGAATTCTGGAGAATCCTGAAAA TATTAACTTTTCCAGATCTAACACTAGCTTATTCTTCCCTGTTATAAAATGGTTTGAACT TTAAAAAAGGTGAAGTTCCAGTCAACCACTTTTTACCCCTGAAATTTCAAGATAATGCTA I K L K T D M Y E G L P F F S K L K K V A K I L S Q E K T T L Q K I N LDQLQLEGLKYIERNEQ F R F N P V M C E ATDTEEVHIMLDGLLPP VRNTVTYTS PDVPLE G G L L L N N P S A L A M H CIVSLGTG YFAEYALG NIPLDE L X H X L S ഗ Ħ I A N Ħ 3120 3060 3000 2760 2940 2880 2280 3300 2400 3240 3180 2520 2460



open boxes are noncoding regions shaded regions are putative coding regions stippled lines replresent intron splicing

# Splice Variants of iPLA $_2\gamma$

4/5/00

327 F	ω N P	1 2 3 161	w N ⊢
T V D I Y I Y L L S N A R S V C G K Q R S K Q L Y F L ACTGTAGATATATATATATATATATATATATATATATATA	M S I GCATTTCTTAAATGAAGCGTTCAAGAAGTGAGAGAATGTCATAGAAAATAAAT	Exon 2   Exon 2   Exon 2   Exon 19   Exon 19	EXON 1  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

### Full-length iPLA2y

# Primers for PCR amplficiation of full-length 88kDa iPLA27:

Reverse primer M458 Sense primer M444 5'-TTTTGTCGACATGTCTATTAATCTGACTGTAGATA-3' 5'-GCATAGCATGCTCACAATTTTGAAAAGAATGGAAGTCC-3'

## Sequence of 88kDa iPLA2 gamma:

gatagtggctggttaaaacagaaaaacatcaaacaagccatcaaatctctgaaaaaatat gaaatgatttcacgtttagctcaatttaagccaagttcccaaattttaagaaaagtatcg
E M I S R L A Q F K P S S Q I L R K V S atgtcccgtattaaaagtactttgaactctgtttcaaaggctgtttttggcaatcaaaat M S R I K S T L N S V S K A V F G N Q N attgggattttgaaacttagcacttctgctcccaagggacttacaaaagtgaacatttgt I G I L K L S T S A P K G L T K V N I C aaaagtgaagcacattcttgcagtaagcactgttactctccaagcaaccatggtttacat alaagccacatcagtctacaaagaggttttcatacaaacataataagatgtaaatggacc tgtgggaagcagaggaagcaagcaactgtatttcttgttctcacctaagcattactggagg atgtctattaatctgactgtagatatatatttacctccttagtaatgcaagaagtgtt atgtctcaacaaaggaaaatgaacatttccgggacaaatcagaacttgaagataaaaag ggagactcattctactttttatcaaatcatattaattcatatttcaaacgtaaggaaaaa gaagaagatataggtaaacgcagtctttttcattacacaagttctataaccacaaattt agtgacaaatcagcagaaaagagtccttttccagaagagaaaagtcacattatagacaaa D INLTVDIYIYLLS K Q R S K Q L Y F L F S P K H H I S L Q R G A H S C S K H C Y S P S N H F L S N H K O K N A Q г н т т s שי Ξ F H T N I I R C Ъ SNI K Q A I K S U T I O S S S н N A К и K W

gaatgtgaggaactttatcgaaaattaggatcagatgtattttcacaaaatgtcattgtt
E C E E L Y R K L G S D V F S Q N V I V ggtgtaagcacaggtgccatattagctttcatgttggggttgtttcatatgcccttggat G V S T G A I L A F M L G L F H M P L D ctacgaaaattagttgaacttactcagaagccagttcatcagctctttgattacatttgt L R K L V E L T Q K P V H Q L F D Y I C ggaatccgaattctctcaattgatggtggaggaacaaggggcgtggttgctctccagacc G I R I L S I D G G G T R G V V A L Q T caggctgcagttagagaaattttggccctaattggctatgtggatccagtgaaagggaga Q A A V R E I L A L I G Y V D P V K G R gtcaaggaaagaattattccatatttattacgactgagacaaattaaggatgaaactctt gaggagaaaaagcgtttatctcttcagcgagaaaagattatcgcaagggtgagtattgat E E K K R L S L Q R E K I I A R V S I D tcagaagaacaggaagagcctgctaaaaactgatcaggctgtcagcaaagacagaaatgca S E E Q E E P A K T D Q A V S K D R N A ttagtaggtggttatattggtggacttgtccccaaattaaagtatgattcaaagagtcag L V G G Y I G G L V P K L K Y D S K S Q gtttcaactaaacaaagtattgctaactttcttctcgtcccacggaaggtgtacaagct gaatctgtacatacggtggacaagcctacaagtccttctgcgatacctgatgttcttcaa gtagaagagggaaattaagatctccagatcctggcatcctggcttataagccaggctca ggaacagtaaaaatgagttggagccatgcattttatgacagtcaaacatgggaaaacatt actagggttgaagaactgacttttcatcttctagaatttcctgaaggaaaaggagtggct aacaggacccgggcattagttcaggcattaagaagaacaactgacccaaagctctgcatt aaggtagctgctgtaagtaccatagtaaatagagggataacacccaaagcttttgtgttc cttaaggataggatgggatctgcactgatgattgaaacagcaagaaaccccacatgtcct TRALVQA RIIPYLLRLRQIKD K L R S LTFHLLE D K P T S r o שי U Ā שי SAIPD ILAYKP r K 団

gaaagtcgaaatgaaaagctggatcagctgcagttggaagggttgaaatacatagaaaga E S R N E K L D Q L Q L E G L K Y I E R tctaatgttatcaacagtgctacagatacagaagaagtccatataatgcttgatggcctg S N V I N S A T D T E E V H I M L D G L ggacgttatgagagtgatgtgagaaacacggtaacatacacaagcttgaaaactaaactt G R Y E S D V R N T V T Y T S  $\mbox{\ensuremath{\upsigma}}$  K T K L catgagtgtaaatgtctttggccagatgtgccgttagagtgcatagtatccctgggcact ggaaatgatcttcatcaagatggaggtttgcttctgaataacccttcggcattagctatg atgtggcaggccattagagcctcatctgctgctccaggctactttgcagaatatgcattg agaaactatggtcattttcctggaatcaactctcattatttgggaggctgtcagtataaa aatgaacaaaaatgaaaaaagttgcaaaaatattaagtcaagaaaaaacaactctgcag ttacctcctgacacctattttagattcaatcctgtaatgtgtgaaaacatacctctagat aaattgtga Z < z G G טי 0 C K C L W P D V Q A I R A S ⊣ TYF Ø K K V A ָם × D Ø G L L L N N P ഗ [דין Н ⋖ × A z × z z Н שי ഗ L Ю ъ Т Е ΑP U Ħ H 3 VMC ĸ ഗ YFAE Ø CIVS ש ഗ A L A M Ω ᆫ שי Ø Y A ⋖

FIGURE 5 (SHEET 1)

Sequence of 77kDa iPLA2 gamma: starting at amino acid 101 (nucleotide 301)

Primers for PCR amplficiation of 77kDa iPLA2γ:

Reverse primer M458 Sense primer m534 5'-GCATAGCATGCTCACAATTTTGAAAAGAATGGAAGTCC-3' 5'-TGAACGTCGACATGTCCCGTATTAAAA-3'

gtttcaactaaacaaagtattgctaactttctttctcgtcccacggaaggtgtacaagct V S T K Q S I A N F L S R P T E G V Q A gaatctgtacatacggtggacaagcctacaagtccttctgcgatacctgatgttcttcaa
E S V H T V D K P T S P S A I P D V L Q gtagaagaggggaaattaagatctccagatcctggcatcctggcttataagccaggctca V E E G K L R S P D P G I L A Y K P G S atgtctcaacaaaaggaaaatgaacatttccgggacaaatcagaacttgaagataaaaag M S Q Q K E N E H F R D K S E L E D K K ggagactcattctactttttatcaaatcatattaattcatatttcaaacgtaaggaaaaa G D S F Y F L S N H I N S Y F K R K E K gaagaagatataggtaaacgcagtctttttcattacacaagttctataaccacaaaattt E E D I G K R S L F H Y T S S I T T K F agtgacaaatcagcagaaaagagtccttttccagaagagaaaagtcacattatagacaaa SDKSAEKSPFPEEKSHIIDK gatagtggctggttaaaacagaaaaacatcaaacaagccatcaaatctctgaaaaaatat gaaatgatttcacgtttagctcaatttaagccaagttcccaaattttaagaaaagtatcg atgtcccgtattaaaagtactttgaactctgtttcaaaggctgtttttggcaatcaaaat tcagaagaacaggaagagcctgctaaaactgatcaggctgtcagcaaagacagaaatgca ttagtaggtggttatattggtggacttgtccccaaattaaagtatgattcaaagagtcag z Σ L K Q K N I K Q A I K S A Q F d H z × × ഗ שי ഗ × ഗ Ø വ I L A Y K P × ჯ დ Þ QIL × Ħ LKKY ×

ggaaatgatcttcatcaagatggaggtttgcttctgaataacccttcggcattagctatg G N D L H Q D G G L L L N N P S A L A M ggaatccgaattctctcaattgatggtggaggaacaaggggcgtggttgctctccagacogg IRILSIDGGTRGVVALQT gtcaaggaaagaattattccatatttattacgactgagacaaattaaggatgaaactctt V K E R I I P Y L L R L R Q I K D E T L aacaggacccgggcattagttcaggcattaagaagaacaactgacccaaagctctgcattN R T R A L V Q A L R R T T D P K L C I catgagtgtaaatgtctttggccagatgtgccgttagagtgcatagtatccctgggcactH E C K C L W P D V P L E C I V S L G T atgtggcaggccattagagcctcatctgctgctccaggctactttgcagaatatgcattg
M W Q A I R A S S A A P G Y F A E Y A L agaaactatggtcattttcctggaatcaactctcattatttgggaggctgtcagtataaaRNYGHFPGINSHYLGGCQYK aaggtagctgctgtaagtaccatagtaaatagagggataacacccaaagcttttgtgttc K V A A V S T I V N R G I T P K A F V F ggaacagtaaaaatgagttggagccatgcattttatgacagtcaaacatgggaaaacatt gaatgtgaggaactttatcgaaaattaggatcagatgtattttcacaaaatgtcattgtt ggtgtaagcacaggtgccatattagctttcatgttggggttgtttcatatgcccttggat caggctgcagttagagaaattttggccctaattggctatgtggatccagtgaaagggaga Q A A V R E I L A L I G Y V D P V K G R actagggttgaagaactgacttttcatcttctagaatttcctgaaggaaaaggagtggct  ${\tt T}$   ${\tt R}$   ${\tt V}$   ${\tt E}$   ${\tt E}$   ${\tt L}$   ${\tt I}$   ${\tt F}$   ${\tt P}$   ${\tt E}$   ${\tt G}$   ${\tt K}$   ${\tt G}$   ${\tt V}$   ${\tt A}$ gaggagaaaaagcgtttatctcttcagcgagaaaagattatcgcaagggtgagtattgat cttaaggataggatgggatctgcactgatgattgaaacagcaagaaaccccacatgtcct ctacgaaaattagttgaacttactcagaagccagttcatcagctctttgattacatttgt ggacgttatgagagtgatgtgagaaacacggtaacatacacaagcttgaaaactaaactt G T V K M S K L V E L T Q K P V H Q L F D Y I C TGAILAFMLG E'LYRKLGS MGSALMIETARNPTC W S H A F Y D S Q T W E D V F S Q N V I V L F H M P L D

aaattgtga G R Y E S. D V R N T V T Y T S LKTKL

Sequence of 74kDa iPLA2 gamma: starting at amino acid 122 (nucleotide 364)

Primers for PCR amplfication of 74kDa iPLA2γ:

Reverse primer M458 Sense primer m533 5'- TCAAGTCGACATGATTTCACGTTTAGC -3'
5'-GCATAGCATGCTCACAATTTTGAAAAGAATGGAAGTCC-3'

gtttcaactaaacaaagtattgctaactttctttctcgtcccacggaaggtgtacaagct V S T K Q S I A N F L S R P T E G V Q A gaatctgtacatacggtggacaagcctacaagtccttctgcgatacctgatgttcttcaa ESVHTVDKPTSPSAIPDVLQ gtagaagaggggaaattaagatctccagatcctggcatcctggcttataagccaggctcaVEEGKLRSPDPGILAYKPGS atgtctcaacaaaggaaaatgaacatttccgggacaaatcagaacttgaagataaaaag ggagactcattctactttttatcaaatcatattaattcatatttcaaacgtaaggaaaaa gaagaagatataggtaaacgcagtctttttcattacacaagttctataaccacaaaattt E E D I G K R S L F H Y T S S I T K Fagtgacaaatcagcagaaaagagtccttttccagaagagaaaagtcacattatagacaaa gatagtggctggttaaaacagaaaaaacatcaaacaagccatcaaatctctgaaaaaatat DSGWLKQKNIKQAIKSLKKY atgatttcacgtttagctcaatttaagccaagttcccaaattttaagaaaagtatcg gaggagaaaaagcgtttatctcttcagcgagaaaagattatcgcaagggtgagtattgat ttagtaggtggttatattggtggacttgtccccaaattaaagtatgattcaaagagtcagLVGGYIGGLVPKLKYDSKSQ tcagaagaacaggaagagcctgctaaaactgatcaggctgtcagcaaagacagaaatgca S F Y F L S N H I N S Y F K R K E × QQKENEHFRDKSELEDKK SAEKS שי 푀 שי Q A V S I

tctaatgttatcaacagtgctacagatacagaagaagtccatataatgcttgatggcctç ggacgttatgagagtgatgtgagaaacacggtaacatacacaagcttgaaaactaaactt GRYESDVRNTVTYTSLKTKL catgagtgtaaatgtctttggccagatgtgccgttagagtgcatagtatccctgggcact ggaaatgatcttcatcaagatggaggtttgcttctgaataacccttcggcattagctatgG N D L H Q D G G L L L N N P S A L A M atgtggcaggccattagagcctcatctgctgctccaggctactttgcagaatatgcattg agaaactatggtcattttcctggaatcaactctcattatttgggaggctgtcagtataaa R N Y G H F P G I N S H Y L G G C Q Y K aaggtagctgctgtaagtaccatagtaaatagagggataacacccaaagcttttgtgttc K V A A V S T I V N R G I T P K A F V F cttaaggataggatgggatctgcactgatgattgaaacagcaagaaaccccacatgtcctLKDRMGSALMIETARNPTCP ggaacagtaaaaatgagttggagccatgcattttatgacagtcaaacatgggaaaacatt G T V K M S W S H A F Y D S Q T W E N I gaatgtgaggaactttatcgaaaattaggatcagatgtattttcacaaaatgtcattgtt
E C E E L Y R K L G S D V F S Q N V I V ggtgtaagcacaggtgccatattagctttcatgttggggttgtttcatatgcccttggat G V S T G A I L A F M L G L F H M P L D ctacgaaaattagttgaacttactcagaagccagttcatcagctctttgattacatttgtLRKLVELTQKPVHQLFDYIC ggaatccgaattctctcaattgatggtggaggaacaaggggcgtggttgctctccagacc G I R I L S I D G G G T R G V V A L Q T caggctgcagttagagaaattttggccctaattggctatgtggatccagtgaaagggagaQ A A V R E I L A L I G Y V D P V K G R gtcaaggaaagaattattccatatttattacgactgagacaaattaaggatgaaactctt VKERIIPYLLRLRQIKDETL actagggttgaagaactgacttttcatcttctagaatttcctgaaggaaaaggagtggct aacaggacccgggcattagttcaggcattaagaagaacaactgacccaaagctctgcatt TRALVQALRRTTDPKL LTFHLLE

aaattgtga aatgaacaaaaatgaaaaaagttgcaaaaatattaagtcaagaaaaaaacaactctgcag N E Q K M K K V A K I L S Q E K T T L Q gaaagtcgaaatgaaaagctggatcagctgcagttggaagggttgaaatacatagaaaga ttacctcctgacacctattttagattcaatcctgtaatgtgtgaaaacatacctctagat L P P D T Y F R F N P V M C E N I P L D K I N D W I K L K T D M Y E G L P F N V I N S Ħ K L D Q L Q L E G L K Y I E AT U Н 禸 Ч U

# Sequence of 63kDa iPLA2 gamma

starting at amino acid 221 (nucleotide 661)

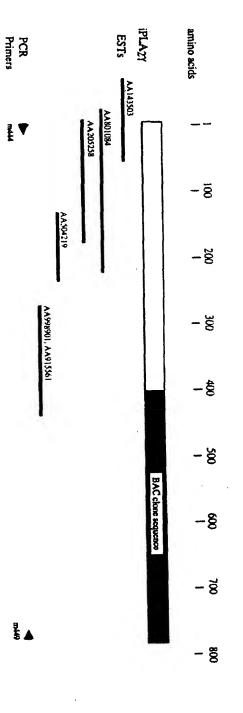
Sense primer M530 5'-:GTAAG'

Reverse primer M458

5'-:GTAAGTCGACAATGTCTCAACAAAAGG-3' 5'GCATAGCATGCTCACAATTTTGAAAAGAATGGAAGTCC-3')

gaggagaaaaagcgtttatctcttcagcgagaaaagattatcgcaagggtgagtattgat E E K K R L S L Q R E K I I A R V S I D gaatctgtacatacggtggacaagcctacaagtccttctgcgatacctgatgttcttcaa ESVHTVDKPTSPSAIPDVLQ gtagaagaggggaaattaagatctccagatcctggcatcctggcttataagccaggctcaVEEGKLRSPDPGILAYKPGS ggaatccgaattctctcaattgatggtggaggaacaaggggcgtggttgctctccagacc G I R I L S I D G G G T R G V V A L Q T caggctgcagttagagaaattttggccctaattggctatgtggatccagtgaaagggaga Q A A V R E I L A L I G Y V D P V K G R gtcaaggaaagaattattccatatttattacgactgagacaaattaaggatgaaactctt V K E R I I P Y L L R L R Q I K D E T L actagggttgaagaactgacttttcatcttctagaatttcctgaaggaaaaggagtggct T R V E E L T F H L L E F P E G K G V  $\mathbb A$ aacaggacccgggcattagttcaggcattaagaagaacaactgacccaaagctctgcatt N R T R A L V Q A L R R T T D P K L C I gtttcaactaaacaaagtattgctaactttctttctcgtcccacggaaggtgtacaagctVSTKQSIANFLSRPTEGVQA atgtctcaacaaaaggaaaatgaacatttccgggacaaatcagaacttgaagataaaaag tcagaagaacaggaagagcctgctaaaaactgatcaggctgtcagcaaagacagaaatgca S E E Q E E P A K T D Q A V S K D R N A ctacgaaaattagttgaacttactcagaagccagttcatcagctctttgattacatttgt ttagtaggtggttatattggtggacttgtccccaaattaaagtatgattcaaagagtcag Ö H F R × VHQL K S E ᆫ

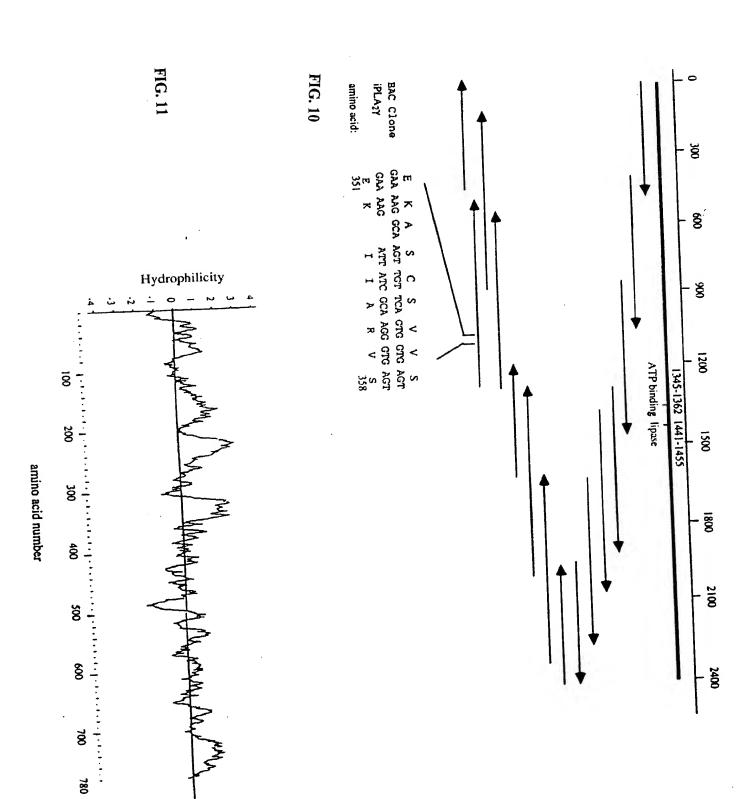
gaaagtcgaaatgaaaagctggatcagctgcagttggaagggttgaaatacatagaaaga ESRNEKLDQLQLEGLKYIER ggacgttatgagagtgatgtgagaaacacggtaacatacacaagcttgaaaactaaactt GRYESDVRNTVTYTSL/KTKL aaggtagctgctgtaagtaccatagtaaatagagggataacacccaaagcttttgtgttcKVAAVSTIVNRGITPKAFVF aaattgtga tctaatgttatcaacagtgctacagatacagaagaagtccatataatgcttgatggcctg S N V I N S A T D T E E V H I M L D G L ggaaatgatcttcatcaagatggaggtttgcttctgaataacccttcggcattagctatg atgtggcaggccattagagcctcatctgctgctccaggctactttgcagaatatgcattg cttaaggataggatgggatctgcactgatgattgaaacagcaagaaaccccacatgtcct ggaacagtaaaaatgagttggagccatgcattttatgacagtcaaacatgggaaaacatt gaatgtgaggaactttatcgaaaattaggatcagatgtattttcacaaaatgtcattgtt ggtgtaagcacaggtgccatattagctttcatgttggggttgtttcatatgcccttggat aatgaacaaaaaatgaaaaaagttgcaaaaatattaagtcaagaaaaaacaactctgcag ttacctcctgacacctattttagattcaatcctgtaatgtgtgaaaacatacctctagat catgagtgtaaatgtctttggccagatgtgccgttagagtgcatagtatccctgggcact agaaactatggtcattttcctggaatcaactctcattatttgggaggctgtcagtataaa U Y G H χ O ELYRKL TGAIL H Ø U L R A ഗ Þ Q ເນ P D A Ħ ഗ Q വ ᆫ щ H ഗ A F M z Ŋ G Н × < ۲ Z A A ש ۲ μJ ល Þ ഗ U ᆫ LNNP PGYF Y D S Q T Ľ ТХТ 凹 T A R V F S Q CIVS L F H M Q M ഗ a Σ 禸 Þ ש ·Q ᆫ Ľ שי Η ۷ К Ø Þ z



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FIG. 9

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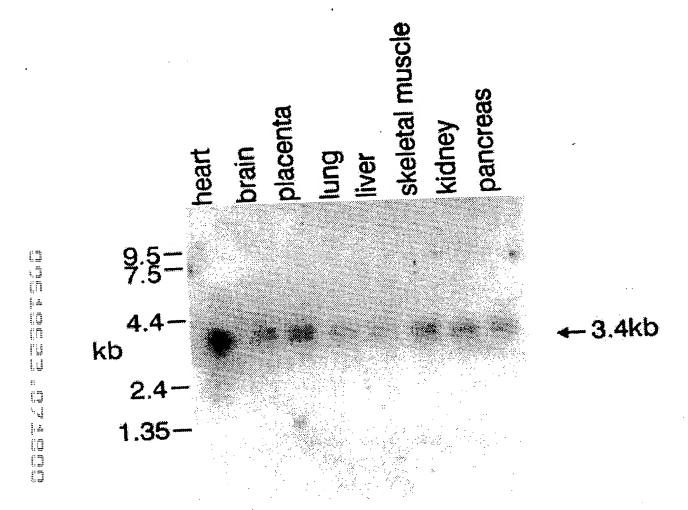


FIG. 12

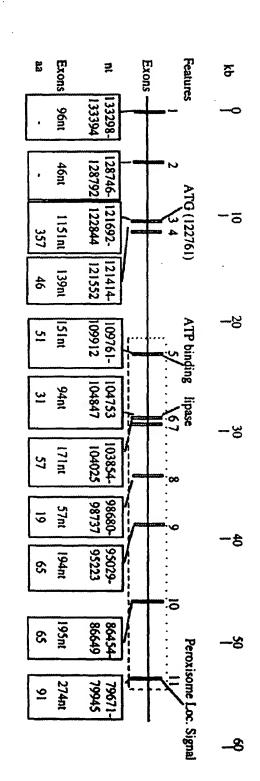


FIG. 13

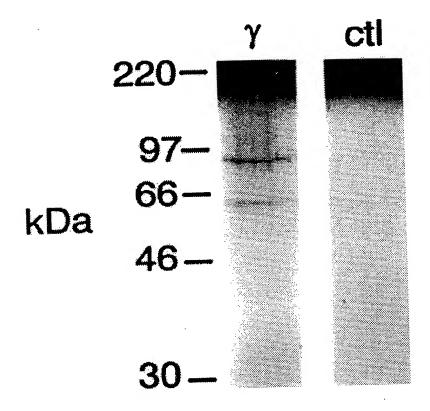


FIG. 14

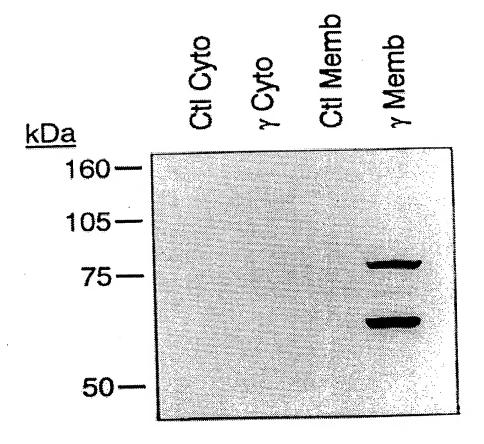


FIG. 15

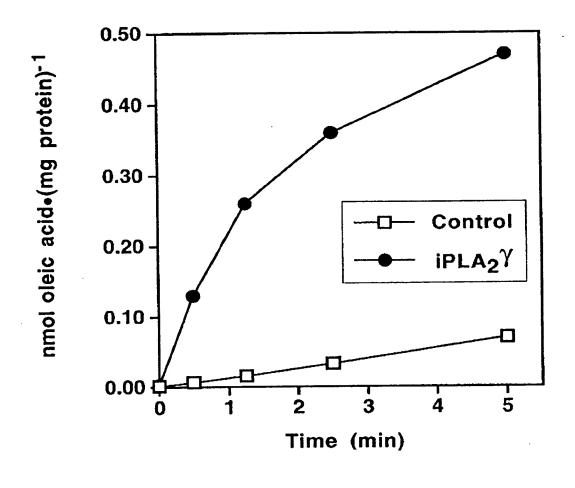


FIG. 16

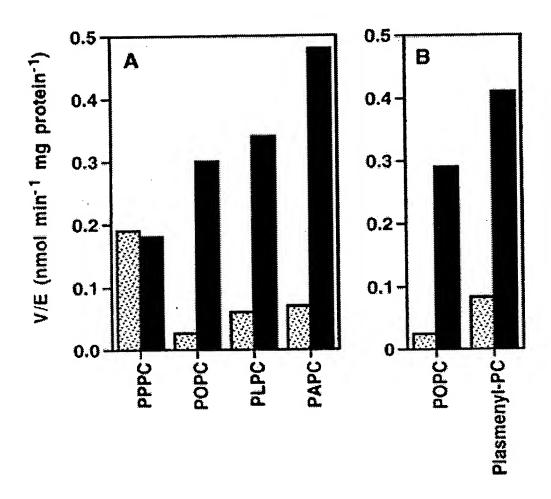


FIG. 17

i

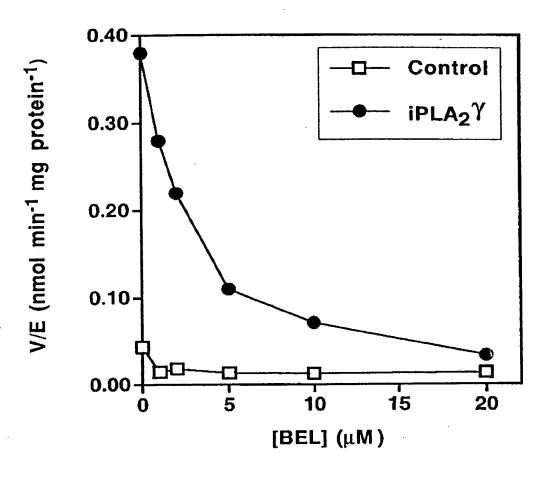


FIG. 18

### <u>kDa</u> 105 75 -



Control Cyto

iPLA<sub>2</sub>-γ<sup>1</sup> Cyto

63 kDa iPLA<sub>2</sub>-γ Cyto

74 kDa iPLA<sub>2</sub>-Y Cyto

Control Memb

 $iPLA_2-\gamma^1$  Memb

63 kDa iPLA<sub>2</sub>-Y Memb

74 kDa iPLA<sub>2</sub>-7 Memb

iPLA<sub>2</sub>-7 Memb

# PLA<sub>2</sub>Y Truncation Mutants





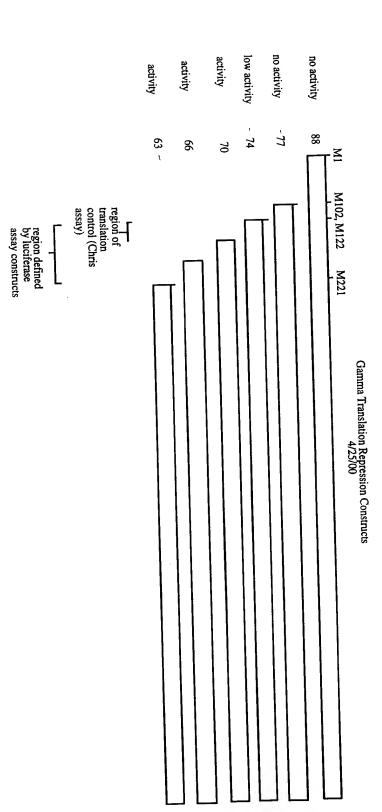
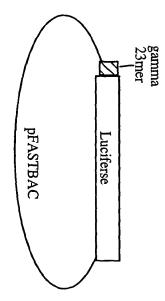


FIG. 20

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promoter \ bacculovirus iPLA2 g 23mer 74kDa Luciferase coding sequence 70KDa 23mer sequences for testing in luciferase assay system

FIG. 22

for translational repression of iPLA2 gamma in the luciferase expression system: Phosphorylated oligo pairs for sequence between nucleotide 364-455

1/2 tcgacctgatttcacgtttagctcaatt iPLA27 atgatttcacgtttagctcaatttaagccaagttcccaaattttaagaaaagtatcggatagtggctggttaaaacagaaaaacatcaaaca ggactaaagtgcaaatcgagttaaccgg

5/6 3/4 tcgactaagccaagttcccaaattttaa gattcggttcaagggtttaaaattccgg tcgacgaaaagtatcggatagtggctgg

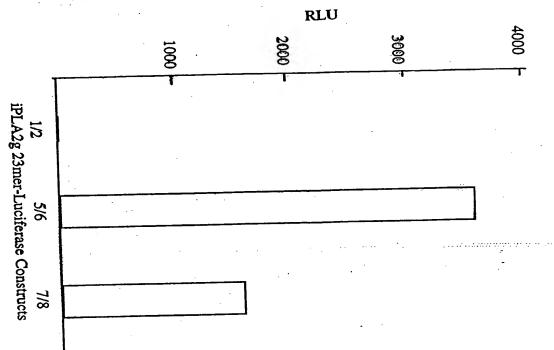
£x . 3

7/8

tcgacttaaaacagaaaaacatcaaaca gaattttgtctttttgtagtttgtccgg gcttttcatagcctatcaccgaccccgg

tyo., 10 10 - .

FIG. 23



IG. 24

The first time that the first time was the first time the first time that the